

METHOD AND SYSTEM FOR IMPLEMENTING AUTONOMOUS  
AUTOMATIC GAIN CONTROL IN A LOW NOISE BROADBAND  
DISTRIBUTION AMPLIFIER

ABSTRACT OF THE DISCLOSURE

Provided is a system for implementing gain control in an amplification module comprising a first stage amplifier having a number of first stage input and output ports. The first stage amplifier is configured to provide first stage amplification to a received input signal and produce from the amplified input signal a number of output signals. Also included are a number of second stage amplifiers, each having second stage input and output ports, the second stage input ports being respectively coupled to the first stage output ports and being configured to receive the number of output signals. A gain control device is coupled to at least one from the group including the first stage input ports, the first stage output ports, and the second stage output ports. The gain control device is also configured to control a gain of at least one of the first stage amplifier and one or more of the number of second stage amplifiers.